

Wednesday, February 21st, 2018	
17:00	Registration and Refreshments
Carbon Materials for Energy Applications	
18:00	Yury Gogotsi (<i>Drexel University, USA</i>) Confinement of Ions in Carbon-Based Materials for Energy Storage
18:45	Dirk Guldi (<i>Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany</i>) Versatile Carbon Nanodots in Electron Donor-Acceptor Architectures
19:30	Welcome Reception

Thursday, February 22nd, 2018	
08:30	Registration
09:00	Opening <ul style="list-style-type: none"> • Welcome by the Helmholtz-Zentrum Berlin (Bernd Rech) • Welcome by the Volkswagen Foundation (Oliver Grewe) • Welcome and Workshop Presentation (Tristan Petit)
X-ray Spectroscopies and X-ray Scattering	
9:30	Juan Velasco-Velez (<i>Fritz Haber Institute, Germany</i>) Graphene as Transparent Electrode for Electrochemistry and X-ray Spectroscopy Applications in Liquid Environment
10:00	Masanari Nagasaka (<i>Institute for Molecular Science, Japan</i>) Interactions of Organic Molecules with Water in Aqueous Solutions Studied by Soft X-ray Absorption Spectroscopy
10:30	Mirjam Zobel (<i>Bayreuth Universität, Germany</i>) Solvent Restructuring around Colloidal Nanoparticles as seen by High-Energy X-rays
11:00	Coffee Break

Thursday, February 22 nd , 2018 (continued)	
Vibrational Spectroscopies	
11:30	Tristan Petit (<i>Helmholtz-Zentrum Berlin, Germany</i>) Toward in Operando Spectroscopy at Nanocarbon-Water Interface
12:00	Mailis Lounasvuori (<i>Oxford University, UK</i>) Acid Deprotonation Driven by Cation Migration at Biased Graphene Nanoflake Electrodes
12:30	Ljiljana Puskar (<i>Helmholtz-Zentrum Berlin, Germany</i>) IRIS Beamline for Nanodiamonds & Nafion Polymer Membranes Doped with Nanodiamonds
13:00	Group Picture
13:15-15:00	Lunch Break and Poster Session
Electrochemical Energy Storage and Conversion	
15:00	Martin Oschatz (<i>Max Planck Institute of Colloids and Interfaces, Germany</i>) Understanding the Role of Nanocarbon-Water Interfaces in Electrochemical Energy Storage and Heterogeneous Catalysis
15:30	Ameer Al-Temimy (<i>Helmholtz-Zentrum Berlin, Germany</i>) Electronic Structure of Intercalated MXene: Towards Next Generation Supercapacitor
15:45	Roland Netz (<i>Freie Universität Berlin, Germany</i>) Interfacial Model for the Capacitance and Electrokinetics of Charged Carbon Surfaces
16:15	Giorgia Greco (<i>Helmholtz-Zentrum Berlin, Germany</i>) Pyrolytic Graphite Electrodes Intercalated by AlCl_4 Anions Probed by X-ray Tomography and Small Angle X-ray Scattering
16:45	End of the Day
19:30	Workshop's Dinner (Invitation Only)

Friday, February 23 rd , 2018	
Solar Fuels	
09:00	Anke Krüger (<i>Würzburg Universität, Germany</i>) Surface Functionalized Nanodiamond for Energy Storage and Catalysis
09:30	Sneha Choudhury (<i>Helmholtz-Zentrum Berlin, Germany</i>) X-Ray Spectroscopic Investigations of the Band Structure Manipulation in Diamond Based Photocatalysts
09:45	Demetra Achilleos (<i>Cambridge University, UK</i>) Carbon Nanodots for Solar-Induced H ₂ generation
10:15	Jian Ren (<i>Helmholtz-Zentrum Berlin, Germany</i>) Probing the Electronic Structure of Atomically-Thin Carbon Nitride Nanosheets Photocatalysts by Soft X-ray Spectroscopies
10:30	Coffee Break
Biomedical and Nanofluidics Applications	
11:00	Raz Jelinek (<i>Ben Gurion University, Israel</i>) Sensing Applications using Carbon Dots in Water: Fluorescence Quenching, Enhancement, and in between
11:30	Jean-Charles Arnault (<i>CEA-LIST, France</i>) Nanodiamond as Radiosensitizer: Chemical and Physical Investigations
12:00	Hyung Gyu Park (<i>ETH Zürich, Switzerland</i>) Mass Transport through Low-Dimensional Carbon Nanomaterials
12:30	Lunch Break
Time-Resolved Spectroscopy and Electron Dynamics	
13:30	Robert Godin (<i>Imperial College, UK</i>) Time-Resolved Spectroscopic Investigation of Excited State Dynamics
14:00	Annika Bande (<i>Helmholtz-Zentrum Berlin, Germany</i>) Graphene Oxide Quantum Dots in <i>Bits</i> - not only in <i>Pieces</i>
14:30	Christoph Merschjann (<i>Helmholtz-Zentrum Berlin, Germany</i>) Evidence for Low-Dimensional Charge Transport in Carbon Nitride Polymers
15:00	Franziska Buchner (<i>Helmholtz-Zentrum Berlin, Germany</i>) Transient Absorption Spectroscopy of Nanodiamonds in Water: Direct Observation of Solvated Electrons
15:15	Closing Remarks (<i>Tristan Petit</i>) and Coffee Break
16:00	BESSY II Tour for participants / Feedback Round with Advisors
17:00	End of Workshop